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mosses and ferns, morphology of algæ, seed plants, plant physiology.

Professor M. F. Guyer will have charge of the zoological laboratories, Professor A. S. Pearse will give the field work. Mr. Nathan Fasten and Mr. A. R. Cahn will assist in the general zoological and field courses. Professor H. R. Denniston will direct the botanical work, and the other instructors in this department will be Professor E. M. Gilbert, A. Stewart, W. N. Steil, E. T. Bartholomew, H. E. Pulling and J. P. Bennett.

The city of Madison is admirably located for a biological station. It is surrounded by three beautiful lakes and the adjacent country affords a variety of swamps, marshes, streams, woodlands and prairies. The station therefore offers excellent opportunities for outdoor biological work with all the advantages that go with the equipment of a large university.

For years surveys and investigations on the lake flora and fauna and their conditions of life have been in progress under the auspices of the Wisconsin Biological and Geological Survey, which has its headquarters in the biological laboratory at the university, and the result of these studies will prove of great value to all who are interested in limnology.

A thirty-foot launch capable of carrying a class of twenty-five has just been purchased and will be in commission throughout the summer. An adequate equipment of row boats, nets, seines and other limnological apparatus is also available.

PACIFIC ASSOCIATION OF SCIENTIFIC SOCIETIES

THE fourth annual convention of the Pacific Association will be held at the University of Washington, May 21-23, 1914. The following are the constituents and their secretaries:

Technical Society of the Pacific Coast, Otto von Geldern, 865 Pacific Bldg., San Francisco.

The Cordilleran Section of the Geological Society of America, G. D. Louderback, University of California.

The Seismological Society of America, S. D. Townley, Stanford University.

Pacific Coast Branch of the American Historical

Associations, W. A. Morris, University of California.

The Pacific Slope Associations of Economic Entomologists, W. B. Herms, University of California.

Pacific Coast Paleontological Society (special meeting), C. A. Waring, Box 162, Mayfield, Cal.

The Philological Association of the Pacific Coast, G. Chinard, University of California.

The Cooper Ornithological Club (not meeting), T. S. Storer, University of California.

California Academy of Sciences (not meeting), J. W. Hobson, 343 Sansome St., San Francisco.

Biological Society of the Pacific Coast, H. B. Torrey, Reed College, Portland.

California Section of the American Chemical Society, B. S. Drake, 5830 Colby St., Oakland.

Astronomical Society of the Pacific Coast (not meeting), D. S. Richardson, 748 Phelan Bldg., San Francisco.

The Geographical Society of the Pacific (not meeting), J. Partridge, 316 Bush St., San Francisco.

Puget Sound Section of the American Chemical Society, R. W. Clough, 4145 Arcade, Seattle.

San Francisco Society of the Archeological Institute of America (not meeting), O. M. Washburn, University of California.

San Francisco Section of the American Mathematical Society, Thos. Buck, University of California.

The following societies will also meet with the Pacific Association:

Seattle Society of the Archeological Institute of America.

The Oregon Section of the American Chemical Society and the Inter-Mountain Section of the American Chemical Society will join with the Puget Sound and San Francisco Sections.

The LeConte Club will hold its annual meeting and dinner.

Political Scientists will hold a meeting for a program and for the preliminary steps in the organization of a Pacific Coast Branch of the American Political Science Association.

The Northwest Society of Engineers will participate in the meeting of the Technical Society of the Pacific Coast.

The Northwest Association of History, Government and Economic Teachers.

Friday evening will be devoted as usual to the dinners of the constituent societies. Saturday evening will be devoted to the general session of the Pacific Association. At this meeting an address of welcome will be given by

Acting President Henry Landes, of the University of Washington, and three papers of a general scientific interest will be given by three members of the constituent societies.

The railroads have granted the usual convention rates for the convention covering the states of California, Oregon, Washington, Idaho and British Columbia.

The proposal for the transfer of the Pacific Association to the American Association for the Advancement of Science as its "Pacific Division" made at the Berkeley meeting in 1913 resulted in the appointment of committees to consider the plan. During the year the two committees have been at work; the general policies and plans of merging have been agreed upon, and at present a smaller committee is drafting a constitution. It is hoped that the transfer can be made at the Seattle meeting.

SCIENTIFIC NOTES AND NEWS

DR. W. W. KEEN, of Philadelphia, has been elected president of the Fifth International Congress of Surgeons to be held in Paris in 1917.

THE Bruce Medal of the Astronomical Society of the Pacific has been awarded to Dr. O. Backlund, of Poulkova.

THE septennial award under the Acton Endowment has this year been made by the Royal Institution to Professor C. S. Sherrington, Weynefete professor of physiology in the University of Oxford, for his work on "The Integrative Action of the Nervous System."

AFTER twenty-one years of connection with the Yerkes Observatory, Sherburne Wesley Burnham, professor of practical astronomy, will retire from active service on July 1.

THE seventieth birthday, on March 25, of Professor Adolf Engler, the director of the Royal Botanic Garden and Museum at Dahlem, near Berlin, was celebrated in the presence of many eminent German and foreign botanists, by several functions. According to the account in *Nature*, on the day itself, Professor Pax, rector of the University of Breslau, with Professors Diels and Gilg, as its editors, presented to Professor Engler a copy of the

Fest-Band of Engler's "Botanische Jahrbücher." The volume forms a supplement to the fiftieth volume of this publication, and consists of more than forty illustrated contributions, largely from his pupils. Professor Haberlandt presented Professor Engler, on behalf of hundreds of subscribers, with his life-size marble bust, the work of the sculptor, A. Manthe. On March 26 there was a banquet at which the official world was represented; and on March 27 the monthly meeting of the Deutsche Botanische Gesellschaft was converted into an "Engler" meeting, and Professor von Wettstein gave, by special invitation, a lecture on the phylogenetic evolution of the Angiosperm flower.

DR. JULIUS KOLLMANN, professor of anatomy at Basle, has celebrated his eightieth birthday.

DR. G. T. BEILBY, Professor A. Keith, F.R.S. and Mr. J. Swinburne, F.R.S., have been elected members of the Athenæum Club for eminence in science.

S. ALFRED MITCHELL, Ph.D., director of the McCormick Observatory at the University of Virginia, has been appointed Ernest Kempton Adams Research Fellow of Columbia University for 1914-15. Professor Mitchell is carrying on work in the measurement of stellar parallaxes by the photographic method.

PASSED ASSISTANT SURGEON MARSHALL GUTHRIE, U. S. Public Health Service, has been appointed chief quarantine officer for the Panama Canal Zone.

SIR HOWARD GRUBB, F.R.S., has been appointed scientific adviser to the Commissioners of Irish Lights, in succession to the late Sir Robert Ball, who held the position for the past twenty years.

SURGEON JOSEPH H. WHITE, of the U. S. Public Health Service, now stationed in New Orleans, has been given a leave of absence for one year to take up for the Rockefeller Commission, the work of the eradication of hookworm disease in Central and South America.

THE Jacksonian Prize of the Royal College of Surgeons for 1913 was awarded to Mr. J.